Contents Volume 263

JEAN-PIERRE DEDIEU (Toulouse, France)
Condition Operators, Condition Numbers, and Condition Number Theorem for the Generalized Eigenvalue Problem 1

E. E. TYRTYSHNIKOV, A. YU. YEREMIN, AND N. L. ZAMARASHKIN (Moscow, Russia)
Clusters, Preconditioners, Convergence 25

ENRICO BOASSO (Buenos Aires, República Argentina)
Joint Spectra and Nilpotent Lie Algebras of Linear Transformations 49

DMITRY FALIKMAN (Haifa, Israel)
Inequalities for Permanents of Hermitian Matrices 63

PETER BENNER (Chemnitz, Federal Republic of Germany) and HEIKE FAßBENDER (Bremen, Federal Republic of Germany)
An Implicitly Restarted Symplectic Lanczos Method for the Hamiltonian Eigenvalue Problem 75

ZHI-HAO CAO (Shanghai, People's Republic of China)
Avoiding Breakdown in Variants of the BI-CGSTAB Algorithm 113

HARALD FRIPERTINGER (Graz, Austria)
Cycle Indices of Linear, Affine, and Projective Groups 133

ARNOLD NEUMAIER (Wien, Austria)
Scaling and Structural Condition Numbers 157

MICHAEL K. NG (Canberra, Australia)
FFT-Based Exponentially Weighted Recursive Least Squares Computations 167

T. PARTHASARATHY (New Delhi, India), R. SRIDHAR (Toronto, Ontario, Canada), and B. SRIPARNA (New Delhi, India)
On Lipschitzian Q_0 and INS Matrices 193

DON COPPERSMITH, ALAN J. HOFFMAN (Yorktown Heights, New York), AND URIEL G. ROTHBLUM (Haifa, Israel)
Inequalities of Rayleigh Quotients and Bounds on the Spectral Radius of Nonnegative Symmetric Matrices 201

WILAND SCHMALE (Oldenburg, Germany)
A Symmetric Approach to Cyclization for Systems Over $\mathbb{C}[y]$ 221

Table of Contents continues

Contents Volume 263

JEAN-PIERRE DEDIEU (Toulouse, France)
Condition Operators, Condition Numbers, and Condition Number Theorem for the Generalized Eigenvalue Problem 1

E. E. TYRTYSHNIKOV, A. YU. YEREMIN, AND N. L. ZAMARASHKIN (Moscow, Russia)
Clusters, Preconditioners, Convergence 25

ENRICO BOASSO (Buenos Aires, República Argentina)
Joint Spectra and Nilpotent Lie Algebras of Linear Transformations 49

DMITRY FALIKMAN (Haifa, Israel)
Inequalities for Permanents of Hermitian Matrices 63

PETER BENNER (Chemnitz, Federal Republic of Germany) and HEIKE FAßBENDER (Bremen, Federal Republic of Germany)
An Implicitly Restarted Symplectic Lanczos Method for the Hamiltonian Eigenvalue Problem 75

ZHI-HAO CAO (Shanghai, People's Republic of China)
Avoiding Breakdown in Variants of the BI-CGSTAB Algorithm 113

HARALD FRIPERTINGER (Graz, Austria)
Cycle Indices of Linear, Affine, and Projective Groups 133

ARNOLD NEUMAIER (Wien, Austria)
Scaling and Structural Condition Numbers 157

MICHAEL K. NG (Canberra, Australia)
FFT-Based Exponentially Weighted Recursive Least Squares Computations 167

T. PARTHASARATHY (New Delhi, India), R. SRIDHAR (Toronto, Ontario, Canada), and B. SRIPARNA (New Delhi, India)
On Lipschitzian Q_0 and INS Matrices 193

DON COPPERSMITH, ALAN J. HOFFMAN (Yorktown Heights, New York), AND URIEL G. ROTHBLUM (Haifa, Israel)
Inequalities of Rayleigh Quotients and Bounds on the Spectral Radius of Nonnegative Symmetric Matrices 201

WILAND SCHMALE (Oldenburg, Germany)
A Symmetric Approach to Cyclization for Systems Over $\mathbb{C}[y]$ 221

Table of Contents continues

Table of Contents continued

S. Galanis, A. Hadjidimos, and D. Noutsos (West Lafayette, Indiana)
Optimal p-Cyclic SOR for Complex Spectra 233

Bill G. Horne (Princeton, New Jersey)
Lower Bounds for the Spectral Radius of a Matrix 261

Ettore Fornasini and Maria Elena Valcher (Padova, Italy)
Directed Graphs, 2D State Models, and Characteristic Polynomials of Irreducible Matrix Pairs 275

Tian-Gang Lei (Beijing, China)
Generalized Schur Functions and Generalized Decomposable Symmetric Tensors 311

Klaus Röbenack and Kurt J. Reinschke (Dresden, Germany)
Graph-Theoretically Determined Jordan-Block-Size Structure of Regular Matrix Pencils 333

Karel Dekimpe, Paul Igodt, and Veerle Ongenae (Kortrijk, Belgium)
The Five-Dimensional Complete Left-Symmetric Algebra Structures Compatible With an Abelian Lie Algebra Structure 349

W. Q. Liu and V. Sreeram (Perth, Australia)
A New Characterization on Stability Bounds for Singularly Perturbed Systems 377

Author Index 389